CLAIMS

1. A data communication system configured to communicatively link a host device and a client device with a point-to-point data communication link, the host device and the client device each configured for multipoint data communication over a distributed network, the data communication system comprising:

a data communication interface driver configured to communicatively link with a data communication interface of the host device via the point-to-point data communication link;

- a virtual driver component configured to communicate with the data communication interface driver and the client device; and
- a virtual network configured to communicatively link the data communication interface driver and the virtual driver component.
- 2. A data communication system as recited in claim 1, wherein the data communication interface driver is a Remote Network Driver Interface Specification (NDIS) driver and the data communication interface is a Remote NDIS component configured to communicate with the Remote NDIS driver via the point-to-point data communication link.

- 3. A data communication system as recited in claim 1, wherein the data communication interface driver is a Remote Network Driver Interface Specification (NDIS) driver and the data communication interface is a Remote NDIS component configured to communicate Remote NDIS messages with the Remote NDIS driver via the point-to-point data communication link.
- **4.** A data communication system as recited in claim 1, wherein the virtual network is a local area network.
- 5. A data communication system as recited in claim 1, wherein the data communication interface driver is a Remote Network Driver Interface Specification (NDIS) driver configured to communicate with the virtual driver component via the virtual network.
- 6. A data communication system as recited in claim 1, wherein the data communication interface driver is a Remote Network Driver Interface Specification (NDIS) driver configured to communicate Remote NDIS messages with the virtual driver component via the virtual network.

Lee & Haves, PLLC 27 0831011416 MS1-0211/S PAT 4PP

- 7. A data communication system as recited in claim 1, wherein the data communication interface driver is a Remote Network Driver Interface Specification (NDIS) driver and the data communication interface is a Remote NDIS component configured to communicate with the Remote NDIS driver via the point-to-point data communication link, and the Remote NDIS driver is configured to communicate with the virtual driver component via the virtual network.
- 8. A data communication system as recited in claim 1, wherein the data communication interface driver is a Remote Network Driver Interface Specification (NDIS) driver and the data communication interface is a Remote NDIS component configured to communicate Remote NDIS messages with the Remote NDIS driver via the point-to-point data communication link, and the Remote NDIS driver is configured to communicate the Remote NDIS messages with the virtual driver component via the virtual network.
- 9. A data communication system as recited in claim 1, further comprising a connection interface configured to couple the point-to-point data communication link with the client device.
- 10. A data communication system as recited in claim 1, further comprising a Universal Serial Bus data communication interface configured to couple the point-to-point data communication link with the client device.

Lee & Hayes, PLLC 28 0831011416 MSI-921US.PAT APP

- 11. A data communication system as recited in claim 1, further comprising a 1394 bus data communication interface configured to couple the point-to-point data communication link with the client device.
- 12. A data communication system as recited in claim 1, further comprising a wireless data communication interface configured to couple the point-to-point data communication link with the client device.
- 13. A data communication system as recited in claim 1, further comprising a Bluetooth data communication interface configured to couple the point-to-point data communication link with the client device.
- 14. A data communication system as recited in claim 1, further comprising an infrared data communication interface configured to couple the point-to-point data communication link with the client device.

16

17

18

19

20

21

22

23

15. A data communication system configured to communicatively link computing devices with a point-to-point data communication link, the data communication system comprising:

one or more multipoint network data communication components designed for data communication over a distributed network;

a connection interface configured to couple the one or more multipoint network data communication components with a remote computing device; and

wherein the one or more multipoint network data communication components are configured for point-to-point data communication with the remote computing device.

- 16. A data communication system as recited in claim 15, wherein the one or more multipoint network data communication components includes a data communication interface driver configured to communicatively link with a data communication interface of the remote computing device via the point-to-point data communication link.
- 17. A data communication system as recited in claim 15, wherein the one or more multipoint network data communication components includes a Remote Network Driver Interface Specification (NDIS) driver configured to communicatively link with a Remote NDIS component of the remote computing device via the point-to-point data communication link.

24

- 18. A data communication system as recited in claim 15, wherein the one or more multipoint network data communication components includes a Remote Network Driver Interface Specification (NDIS) driver configured to communicate Remote NDIS messages with a Remote NDIS component of the remote computing device via the point-to-point data communication link.
- 19. A data communication system as recited in claim 15, wherein the connection interface is a point-to-point data communication protocol interface.
- 20. A data communication system as recited in claim 15, wherein the connection interface is a Universal Serial Bus data communication interface.
- 21. A data communication system as recited in claim 15, wherein the connection interface is a 1394 bus data communication interface.
- 22. A data communication system as recited in claim 15, wherein the connection interface is a wireless data communication interface.
- 23. A data communication system as recited in claim 15, wherein the connection interface is a Bluetooth data communication interface.
- 24. A data communication system as recited in claim 15, wherein the connection interface is an infrared data communication interface.

- 25. A data communication system as recited in claim 15, wherein the one or more multipoint network data communication components includes a data communication interface driver and a virtual driver component, the data communication interface driver configured to communicate with the virtual driver component via a virtual network.
- 26. A data communication system as recited in claim 15, wherein the one or more multipoint network data communication components includes a Remote Network Driver Interface Specification (NDIS) driver and a virtual driver component, the Remote NDIS driver configured to communicate with the virtual driver component via a virtual network.
- 27. A data communication system as recited in claim 15, wherein the one or more multipoint network data communication components includes a Remote Network Driver Interface Specification (NDIS) driver and a virtual driver component, the Remote NDIS driver configured to communicate Remote NDIS messages with the virtual driver component via a virtual network.

- 28. A data communication system as recited in claim 15, wherein the one or more multipoint network data communication components includes a data communication interface driver and a virtual driver component, the data communication interface driver configured to communicatively link with a data communication interface of the remote computing device via the point-to-point data communication link, and the data communication interface driver further configured to communicate with the virtual driver component via a virtual network.
- 29. A data communication system as recited in claim 15, wherein the one or more multipoint network data communication components includes a Remote Network Driver Interface Specification (NDIS) driver and a virtual driver component, the Remote NDIS driver configured to communicatively link with a Remote NDIS component of the remote computing device via the point-to-point data communication link, and the Remote NDIS driver further configured to communicate with the virtual driver component via a virtual network.
- 30. A data communication system as recited in claim 15, wherein the one or more multipoint network data communication components includes a Remote Network Driver Interface Specification (NDIS) driver and a virtual driver component, the Remote NDIS driver configured to communicate Remote NDIS messages with a Remote NDIS component of the remote computing device via the point-to-point data communication link, and the Remote NDIS driver further configured to communicate the Remote NDIS messages with the virtual driver component via a virtual network.

Lee & Hayes, PLLC 33 0831011416 MS1-921US.PAT APP

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

- A data communication system configured to communicatively link a 31. first device and a second device with a point-to-point data communication link, the point-to-point data communication link configured with multipoint network data communication components designed for data communication over a distributed network.
- A method for implementing a point-to-point data communication 32. link between computing devices, the method comprising:

providing a network communication component designed for data communication over a distributed network;

providing a connection interface to couple the network communication component with a host computing device; and

providing a virtual network to communicatively link the network communication component and a virtual driver component of a client computing device.

A method as recited in claim 32, wherein providing the network **33.** communication component includes providing a data communication interface driver to communicatively link with a data communication interface of the host computing device via the point-to-point data communication link.

- 34. A method as recited in claim 32, wherein providing the network communication component includes providing a Remote Network Driver Interface Specification (NDIS) driver to communicatively link with a Remote NDIS component of the host computing device via the point-to-point data communication link.
- 35. A method as recited in claim 32, wherein providing the network communication component includes providing a Remote Network Driver Interface Specification (NDIS) driver to communicate Remote NDIS messages with a Remote NDIS component of the host computing device via the point-to-point data communication link.
- 36. A method as recited in claim 32, wherein providing the connection interface includes providing a point-to-point data communication protocol interface.
- 37. A method as recited in claim 32, wherein providing the connection interface includes providing a Universal Serial Bus data communication interface.
- 38. A method as recited in claim 32, wherein providing the connection interface includes providing a 1394 bus data communication interface.
- 39. A method as recited in claim 32, wherein providing the connection interface includes providing a wireless data communication interface.

- 40. A method as recited in claim 32, wherein providing the connection interface includes providing a Bluetooth data communication interface.
- 41. A method as recited in claim 32, wherein providing the connection interface includes providing an infrared data communication interface.
- 42. A method as recited in claim 32, wherein providing the virtual network includes providing a virtual local area network.
- 43. A method as recited in claim 32, wherein providing the network communication component includes providing a Remote Network Driver Interface Specification (NDIS) driver, and wherein providing the virtual network includes providing a virtual local area network to communicate Remote NDIS messages between the Remote NDIS driver and the virtual driver component.
- 44. A method as recited in claim 32, wherein providing the network communication component includes providing a Remote Network Driver Interface Specification (NDIS) driver to communicate Remote NDIS messages with a Remote NDIS component of the host computing device via the point-to-point data communication link, and wherein providing the virtual network includes providing a virtual local area network to communicate the Remote NDIS messages between the Remote NDIS driver and the virtual driver component.

45. A method for communicating data between a host device and a client device with a point-to-point data communication link, the client device performing the method comprising:

coupling to the host device with a connection interface to establish the point-to-point data communication link;

receiving data from a remotely located data communication interface; and communicating the data from a data communication interface driver designed for data communication over a distributed network via a virtual network to a virtual driver component for the client device.

- 46. A method as recited in claim 45, wherein coupling with the connection interface includes coupling to the host device with a Universal Serial Bus data communication interface.
- 47. A method as recited in claim 45, wherein coupling with the connection interface includes coupling to the host device with a 1394 bus data communication interface.
- 48. A method as recited in claim 45, wherein coupling with the connection interface includes coupling to the host device with a wireless data communication interface.
- 49. A method as recited in claim 45, wherein coupling with the connection interface includes coupling to the host device with a Bluetooth data communication interface.

Lee & Hayes, PLLC 0831011416 MS1-921US PAT APP

50. A method as recited in claim 45, wherein coupling with the connection interface includes coupling to the host device with an infrared data communication interface.

- 51. A method as recited in claim 45, wherein communicating includes communicating the data via a virtual local area network.
- 52. A method as recited in claim 45, wherein receiving includes receiving Remote Network Driver Interface Specification (NDIS) messages from a Remote NDIS component.
- 53. A method as recited in claim 45, wherein receiving includes receiving Remote Network Driver Interface Specification (NDIS) messages from a Remote NDIS component, and wherein communicating includes communicating the Remote NDIS messages from a Remote NDIS driver via the virtual network to the virtual driver component.
- 54. A method as recited in claim 45, wherein receiving includes receiving Remote Network Driver Interface Specification (NDIS) messages from a Remote NDIS component, and wherein communicating includes communicating the Remote NDIS messages from a Remote NDIS driver via a virtual local area network to the virtual driver component.

Lee & Hayes, PLLC 38 0831011416 MS1-921US PAT APP

55. One or more computer-readable media comprising computer-executable instructions that, when executed, direct a computing system to perform the method of claim 45.
56. A method for communicating data between a host device and one or more client devices with point-to-point data communication, the method

more client devices with point-to-point data communication, the method comprising:

a first client device:

coupling to the host device with a first client device connection interface to establish a point-to-point data communication link between the host device and the first client device;

receiving Remote Network Driver Interface Specification (NDIS) messages from a Remote NDIS component of the host device;

communicating the Remote NDIS messages from a Remote NDIS driver designed for data communication over a distributed network via a virtual network to a virtual driver component for the first client device; a second client device:

coupling to the host device with a second client device connection interface to establish a point-to-point data communication link between the host device and the second client device;

receiving the Remote NDIS messages from the Remote NDIS component of the host device; and

communicating the Remote NDIS messages from a Remote NDIS driver designed for data communication over a distributed network via a virtual network to a virtual driver component for the second client device.

- 57. A method as recited in claim 56, wherein coupling to the host device with a first client device connection interface and coupling to the host device with a second client device connection interface includes coupling to the host device with a Universal Serial Bus data communication interface.
- 58. A method as recited in claim 56, wherein coupling to the host device with a first client device connection interface and coupling to the host device with a second client device connection interface includes coupling to the host device with a wireless data communication interface.

Lee & Hayes, PLLC 40 0831011416 MSI-921US.PAT APP